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- AN - 1992-028863 [25]  
A - [001] 014 022 023 028 039 04- 067 070 127 147 158 159 197 198 200 201  
231 239 240 242 244 250 252 258 272 276 31- 316 320 327 332 336 398  
431 44& 445 477 525 55& 56& 57- 575 583 589 59& 623 624 645 688 720  
AP - JP19900075285 19900323  
CPY - TEIK-N  
DC - A96 B04 B05 B07  
DR - 0121-U 1061-U 1143-U 1147-U 1356-U 1740-U 1851-U 1874-U  
FS - CPI  
IC - A61K37/02 ; A61K47/14  
KS - 0013 0224 0231 1279 1581 1588 1592 1977 1980 2002 2014 2318 2427 2440  
2507 2509 2585 2729 2766 3201 3202 3273  
MC - A12-V01 B04-B02D B04-B04A6 B04-C01 B04-C03C B07-A02 B10-C04E B10-G02  
B12-C09 B12-J01  
M1 - [02] D011 D601 F012 F014 F423 F521 G010 G013 G100 H1 H100 H101 H181  
H182 H4 H401 H441 H481 H5 H598 H8 H9 J0 J011 J012 J1 J111 J171 J172 J3  
J371 K0 L2 L250 M210 M211 M271 M280 M281 M311 M312 M313 M314 M315 M320  
M321 M331 M332 M333 M340 M342 M343 M349 M371 M381 M391 M423 M431 M510  
M511 M520 M521 M530 M531 M540 M782 M903 M904 P714 P861 V901 V917 V921;  
R01851-M R01874-M R10365-M  
- [03] F012 F013 F014 F113 G010 G100 H404 H484 H5 H522 H541 H589 H8 J014  
J273 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M225  
M231 M232 M233 M262 M272 M280 M281 M312 M323 M333 M342 M343 M371 M383  
M393 M423 M431 M510 M520 M521 M530 M531 M540 M782 M903 P714 P861 Q616  
V743  
M2 - [01] J0 J011 J1 J171 M220 M221 M222 M223 M224 M225 M231 M262 M281 M320  
M416 M431 M620 M782 M903 M904 P714 P861; R00121-M R01061-M R01143-M  
R01147-M R01356-M  
PA - (TEIK-N) TEIKOKU SEIYAKU KK  
PN - JP3275633 A 19911206 DW199204 000pp  
PR - JP19900075285 19900323  
XA - C1992-012635  
XIC - A61K-037/02 ; A61K-047/14  
AB - J03275633 Digestive tract membrane absorption accelerators for  
physiologically active polypeptides comprise nonionic surfactants and  
medium-sized chain aliphatic carboxylic acids or their alkali metal  
salts.  
- The nonionic surfactants are selected from one or more of sorbitan  
aliphatic acid esters, polyoxysorbitan aliphatic acid esters,  
polyoxyalkylene higher alcoholic ethers, and polyoxyethylene phenyl  
ethers. The medium-sized chain aliphatic carboxylic acids are selected  
from one or more of caproic, caprylic, lauric, myristic and palmitic  
acid(s).  
- USE/ADVANTAGE - The present compsns. possess synergistic actions of  
the surfactants and the aliphatic carboxylic acids as useful digestive  
tract membrane absorption accelerators for physiologically active  
polypeptides pref. with a comparatively low mol. wt.. Examples are  
insulin, angiotensin, vasopressin, LH-RH, calcitonin.  
- In an example, polyoxyethylene(9)oxyphenyl ether (400 micro l) and 200  
mg Na caproate were dissolved in 2 g H2O. To this aq. soln. were added  
1000 IU porcine calcitonin. 18.4 g lactose and 600 mg

hydroxypropylmethyl cellulose. The resultant mixt. was made into granules (1 mm in dia.). These granules were coated with a mixt. of 300 g hydroxypropylmethyl cellulose acetate terephthalate, 30 g triethyl citrate, 2000 g EtOH and 1000 g H<sub>2</sub>O to give a film-coated calcitonin prepn. (1IU calcitonin per 100 g of the prepn.).

CN - R00121-M R01061-M R01143-M R01147-M R01356-M R01851-M R01874-M R10365-M

IW - DIGEST TRACT ABSORB ACCELERATE POLYPEPTIDE COMPRISE NONIONIC SURFACTANT MEDIUM SIZE CHAIN ALIPHATIC CARBOXYLIC ACID

IKW - DIGEST TRACT ABSORB ACCELERATE POLYPEPTIDE COMPRISE NONIONIC SURFACTANT MEDIUM SIZE CHAIN ALIPHATIC CARBOXYLIC ACID

NC - 001

OPD - 1990-03-23

ORD - 1991-12-06

PAW - (TEIK-N) TEIKOKU SEIYAKU KK

TI - Digestive tract absorption accelerators for polypeptide(s) - comprise nonionic surfactants and medium-sized chain aliphatic carboxylic acids

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